

PROJECT:			_ PERMIT:			
ADDRES	SS:	_ D/	ATE:_			
TESTIN	G AGENCY:	_ PH	HONE	<u>:</u>		
contac to notificall insp Superv Bellevu Inspec	CONSTRUCTION MEETING IS REQUIRED. The Content of th	responding responding to the contract of the c	onsibiling ins tters s to the onforr	lity of the owner or owner's designee spection in a timely manner. Copies of submitted to the Building Inspection immediate attention of the City of mance reports to the Building		
	Required Special 2009 International Building Code;		-			
□ 1.	Structural Welding (Steel 1704.3.1)		12.	Sprayed Fire-Resist. Mtrls (1704.12)		
□ 2.	High Strength Bolting (Steel 1704.3.3)		13.	Intumescent Fire-Resist. Ctgs (1704.13)		
□ 3.	Structural Concrete (1704.4)		14.	EIFS (1704.14)		
☐ 4.	Reinf. steel/ prestressing tendons (1704.4)		15.	Post-Installed Anchors (1704.15)		
☐ 5.	Shotcrete (1704.4; 1913)		16.	Smoke Control (1704.16)		
☐ 6.	Structural Masonry (1704.5)		17.	Structural Steel (SISR 1707.2)		
<b>7</b> .	High Load Diaphragms (Wood 1704.6.1)		18.	Structural Wood (SISR 1707.3)		
□ 8.	Grading, excavation, and filling (Soils 1704.7)		19.	Cold-Formed Steel Framing (SISR 1707.4)		
9.	Driven Deep Foundations (1704.8)		20.	Stor. Racks and Access Firs. (SISR 1707.5		
<u> </u>	Cast-in-Place Deep Foundations (1704.9)		21.	Architectural Components (SISR 1707.6)		
<u> </u>	Helical Pile Foundations (1704.10)		22.	Mech. and Elec. Components (SISR 1707.7		
<u>23.</u>	Installation of Precast Elements (1704.4)					

24. Other inspections as required by the Design Professional or the Building Official (1704.13):

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE		
	Material verification of high-strength bolts, nuts and washers:						
! }	a. Identification markings to conform to ASTM standards specified in the approved construction documents.	· .	X	AISC 360, Section A3.3 and applicable ASTM material standards			
, <sup>3</sup>	b.Manufacturer's certificate of compliance required.	. : <del>-</del>	x				
2. I	nspection of high-strength bolting:						
	a. Snug-tight joints.		X				
	b.Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation.		<b>X</b>	AISC 360, Section M2.5	1704.3.3		
	c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.	X	· · ·				
	Material verification of structural steel and cold-formed steel deck:						
	a. For structural steel, identification markings to conform to AISC 360.		·X	AISC 360, Section M5.5			
	b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.		X	Applicable ASTM material standards			
-	c. Manufacturer's certified test reports.		X				
4. N	Material verification of weld filler materials:			-			
- 11	a. Identification markings to conform to AWS specification in the approved construction documents.		x	AISC 360, Section A3.5 and applicable AWS A5 documents			
	b.Manufacturer's certificate of compliance required.		X		-		
5. I	nspection of welding:	R 4			· ·		
	a. Structural steel and cold-formed steel deck:						
	Complete and partial joint penetration groove welds.	X					
	2) Multipass fillet welds.	X					
	3) Single-pass fillet welds > 5/16"	X		AWS D1.1	1704.3.1		
	4) Plug and slot welds.	X	<u> </u>				
	5) Single-pass fillet welds $\leq \frac{5}{16}''$		X				
	Floor and roof deck welds.		x	AWS D1.3			

(continued)

## TABLE 1704.3—continued REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
b.Reinforcing steel:		-		
Verification of weldability of reinforcing steel other than ASTM A 706.		X		
Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	,.	AWS D1.4 ACI 318: Section 3.5.2	
3) Shear reinforcement.	X	_	5.40	
4) Other reinforcing steel.		X	$\chi^{(0)}(g_{\lambda})$	
6. Inspection of steel frame joint details for compliance:				
a. Details such as bracing and stiffening.		X		
b. Member locations.	_	X	_	1704.3.2
c. Application of joint details at each connection.		X		

For SI: 1 inch = 25.4 mm.

a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

## TABLE 1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCE
Inspection of reinforcing steel, including prestressing tendons, and placement.		X	ACI 318: 3.5, 7.1-7.7	1913.4
Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.			AWS D1.4 ACI 318: 3.5.2	_
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X		ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1
Inspection of anchors installed in hardened concrete.	<del></del>	x	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1
5. Verifying use of required design mix.	<del>-</del>	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	A ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. Inspection of concrete and shotcrete placement for proper application techniques.	X		ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.
Inspection for maintenance of specified curing temperature and techniques.		X	ACI 318: 5.11-5.13	1913.9
9. Inspection of prestressed concrete:  a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	XXX	_	ACI 318: 18.20 ACI 318: 18.18.4	
10. Erection of precast concrete members.		X	ACI 318: Ch. 16	<u> </u>
11. Verification of in-situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.		<b>X</b>	ACI 318: 6.2	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	- 11	x	ACI 318: 6.1.1	<del>VIII</del> 9

For SI: 1 inch = 25.4 mm.

a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance.

TABLE 1704.5.1

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION							
	FREQUENCY C	EQUENCY OF INSPECTION REFERENCE FOR CRITE			RIA		
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	IBC SECTION	TMS 402/ACI 530/ASCE 5 <sup>8</sup>	TMS 602/ACI 530.1/ASCE 6 <sup>a</sup>		
Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	· · · · · · · · · · · · · · · · · · ·	X			Art. 1.5		
2. Verification of $f_m$ and $f_{MC}$ prior to construction except where specifically exempted by this code.		X		e groot die Arter G	Art. 1.4B		
Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	<b>X</b> *		<u></u>	(24) 中でご 	Art. 1.5B.1.b.3		
4. As masonry construction begins, the follow	ving shall be verific	ed to ensure compli	ance:	14.			
a. Proportions of site-prepared mortar.	<del>-</del>	X	·- <u>-</u>		Art. 2.6A		
b. Construction of mortar joints.		X			Art. 3.3B		
c. Location of reinforcement, connectors, prestressing tendons and anchorages.		<b>X</b>	<u> </u>	> <del></del>	Art. 3.4, 3.6A		
d. Prestressing technique.	_	X	; · ·	<del>-</del>	Art. 3.6B		
e. Grade and size of prestressing tendons and anchorages.		X	· -		Art. 2.4B, 2.4H		
5. During construction the inspection program	n shall verify:				:		
a. Size and location of structural elements.	<del>-</del>	X			Art. 3.3F		
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.		X		Sec. 1.2.2(e), 1.16.1			
c. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages.		X	<u></u>	Sec. 1.15	Art. 2.4, 3.4		
d. Welding of reinforcing bars.	X X			Sec. 2.1.9.7.2, 3.3.3.4(b)	- Y ;		
e. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	- -	X	Sec. 2104.3, 2104.4	- -	Art. 1.8C, 1.8D		
f. Application and measurement of prestressing force.	X				Art. 3.6B		

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TABLE 1704.5.1—continued LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

	FREQUENCY C	F INSPECTION	REFERENCE FOR CRITERIA					
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	IBC SECTION	TMS 402/ACI 530/ASCE 5 <sup>8</sup>	TMS 602/ACI 530.1/ASCE 6 <sup>a</sup>			
s. Prior to grouting, the following shall be verified to ensure compliance:								
a. Grout space is clean.	_	X		_	Art. 3.2D			
b. Placement of reinforcement and connectors, and prestressing tendons and anchorages.	_	X	_	Sec. 1.13	Art. 3.4			
c. Proportions of site-prepared grout and prestressing grout for bonded tendons.	_	x	<u></u>		Art. 2.6B			
d. Construction of mortar joints.		X	_	_	Art. 3.3B			
Grout placement shall be verified to ensure compliance:	X			- · · · · · · · · · · · · · · · · · · ·	Art. 3.5			
a. Grouting of prestressing bonded tendons.	X				Art. 3.6C			
Preparation of any required grout speci- mens, mortar specimens and/or prisms shall be observed.		x	Sec. 2105.2.2, 2105.3	. <del>.</del> .	Art. 1.4			

For SI:  $^{\circ}C = [(^{\circ}F) - 32]/1.8$ . a. The specific standards referenced are those listed in Chapter 35.

## TABLE 1704.5.3 LEVEL 2 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

entral en			RE	FERENCE FOR CRIT	ERIA
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	IBC SECTION	TMS 402/ACI 530/ASCE 5 <sup>a</sup>	TMS 602/ACI 530.1/ASCE 6 <sup>a</sup>
Compliance with required inspection provisions of the construction documents and the approved submittals.		X	<u></u>		Art. 1.5
2. Verification of $f_m$ and $f_{AAC}$ prior to construction and for every 5,000 square feet during construction.		х		·	Art. 1.4B
3. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site.	_	X	—		Art. 1.5B
4. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	_		<del></del>	Art. 1.5B.1.b.3
5. The following shall be verified to ensure comp	liance:				,
Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons.	_	X			Art. 2.6A
b. Placement of masonry units and construction of mortar joints.	_	X			Art. 3.3B
c. Placement of reinforcement, connectors and prestressing tendons and anchorages.		X	_	Sec. 1.15	Art. 3.4, 3.6A
d. Grout space prior to grout.	X				Art. 3.2D
e. Placement of grout.	X		_		Art. 3.5
f. Placement of prestressing grout.	X		_		Art. 3.6C
g. Size and location of structural elements.		X			Art. 3.3F
h. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X	_		Sec.1.2.2(e), 1.16.1	
i. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages.		X	_	Sec. 1.15	Art. 2.4, 3.4
j. Welding of reinforcing bars.	X			Sec. 2.1.9.7.2, 3.3.3.4 (b)	_
k. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	_	X	Sec. 2104.3, 2104.4	<del>-</del>	Art. 1.8C, 1.8D
Application and measurement of prestressing force.	X		_		Art. 3.6B
Preparation of any required grout specimens and/or prisms shall be observed.	х	_	Sec. 2105.2.2, 2105.3		Art. 1.4

For SI:  $^{\circ}C = [(^{\circ}F) - 32]/1.8$ , 1 square foot = 0.0929 m<sup>2</sup>. a. The specific standards referenced are those listed in Chapter 35.

## TABLE 1704.7 REQUIRED VERIFICATION AND INSPECTION OF SOILS

	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	<del>-</del>	x
2.	Verify excavations are extended to proper depth and have reached proper material.	_	<b>X</b>
3.	Perform classification and testing of compacted fill materials.	<del>-</del>	X
4.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	x	
5.	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	_	X

TABLE 1704.8
REQUIRED VERIFICATION AND INSPECTION OF DRIVEN DEEP FOUNDATION ELEMENTS

-	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1.	Verify element materials, sizes and lengths comply with the requirements.	<b>X</b>	
2.	Determine capacities of test elements and conduct additional load tests, as required.	х	_
3.	Observe driving operations and maintain complete and accurate records for each element.	Х	_
4.	Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.	X	- -
5.	For steel elements, perform additional inspections in accordance with Section 1704.3.		<u> </u>
6.	For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1704.4.		· —
7.	For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.	–	· · · · · · · · · · · · · · · · · · ·

TABLE 1704.9
REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1.	Observe drilling operations and maintain complete and accurate records for each element.	X	· <u>-</u>
2.	Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.	x	_
3.	For concrete elements, perform additional inspections in accordance with Section 1704.4.	-	